

Amendments to the Specification:

Please replace paragraph [0075] with the following rewritten paragraph:

[0075] The ~~followings explain~~ following explains the operation of the tray opening/closing sensor 107 when the manual feed tray 102 opens to permit a paper insertion.

Please replace paragraph [0084] with the following rewritten paragraph:

[0084] This paper detection sensor 212 comprises a swing arm 211 activated to rotate in the counterclockwise direction around an axis 211a, and a detection unit 210 which generates a turn-off signal when the swing arm 211 rotates in the counterclockwise direction and ~~generate which generates~~ a turn-on signal when the swing arm 210 rotates in the clockwise direction.

Please replace paragraph [0085] with the following rewritten paragraph:

[0085] The ~~followings will describe~~ following describes the operation of the paper detection sensor 212 when paper P ~~passes~~ passes by the paper detection sensor 212.

Please replace paragraph [0086] with the following rewritten paragraph:

[0086] When paper P is not in the vicinity of the printing head 304, the swing arm 211 is biased to rotate in the counterclockwise direction by a spring (not shown), and its end (the right end in Fig. 1) is sticking out of a paper path 205. The detection unit 210 is, at this time, ~~is in~~ in the state of "Off".

Please replace paragraph [0087] with the following rewritten paragraph:

[0087] When the paper P is transferred from the ~~upstream~~ upstream, and its leading end rotates the swing arm 211 in the clockwise direction, and the detection unit 210 turns on.

Please replace paragraph [0090] with the following rewritten paragraph:

[0090] Referring to Fig. 1, the structure of the printing mechanism 300 is ~~described in~~ described below.

Please replace paragraph [0091] with the following rewritten paragraph:

[0091] The printing mechanism 300 comprises a guide shaft 302 extending horizontally (in the direction of the depth in Fig. 1) and supported by the body frame 2, and a carriage ~~304~~301, supported by the guide shaft ~~302~~302, ~~to be movable in~~moves in a horizontal direction.

Please replace paragraph [0092] with the following rewritten paragraph:

[0092] A cartridge holder 305 is fixed to the carriage 301. There is an ink cartridge ~~303~~303, which contains ink used for ~~printing~~printing, that is detachably attached to the cartridge holder 305.

Please replace paragraph [0093] with the following rewritten paragraph:

[0093] A printing head 304 is attached to the carriage 301 ~~facing to~~and faces a platen ~~306 on~~306, which holds and horizontally supports paper P ~~is horizontally supported for~~ printing. Plural ink jet nozzles (not shown in the drawing) are formed in the printing head 304 to jet ink supplied from the ink cartridge 303.

Please replace paragraph [0094] with the following rewritten paragraph:

[0094] The carriage 301 can be reciprocated ~~in~~in a horizontal direction (the direction of the depth in Fig. 1) by the driving force transmitted from a carriage drive mechanism (not shown in the drawing). For printing, the ink jet nozzles selectively jet ink based on dot pattern data corresponding to ~~of~~the printing image with the carriage 301 (ink jet nozzles) reciprocating.

Please replace paragraph [0109] with the following rewritten paragraph:

[0109] The structure of the control mechanism 400 is ~~going to be explained in~~explained below referring to Fig. 3.

Please replace paragraph [0116] with the following rewritten paragraph:

[0116] ~~Following descriptions are about the~~ The movement of the paper feeding apparatus 100 is explained below referring to ~~Fig.~~ Figs. 4 and 5. Fig. 4 illustrates a perspective view of the paper feeding apparatus 100. Fig. 5 shows a right side view thereof.

Please replace paragraph [0117] with the following rewritten paragraph:

[0117] The paper feeding apparatus 100 comprises a frame 111, a paper loading board 101 to load sheets of paper P obliquely, a pair of sidewalls 112 arranged respectively on right and left sides of the paper loading board 101, a manual feed tray 102 openably/closably attached to the paper loading board 101 to insert paper P sheet by sheet from the backside of the paper loading board 101. The manual feed tray 102 can be opened/closed by turning around a ~~spindle 102a~~ spindle 102a.

Please replace paragraph [0118] with the following rewritten paragraph:

[0118] The paper feeding apparatus 100 also comprises an abutting surface 103 to which the bottom end of paper P abuts in the lower part of the paper loading board 101 to ~~guide a feed~~ the feeding of paper P to the printing mechanism 300.

Please replace paragraph [0122] with the following rewritten paragraph:

[0122] ~~The followings describe~~ following describes a stopper 140 ~~which prevent that prevents~~ an influx of a pile of paper from going into the downstream side of the paper ~~feed feed, which is~~ caused by the bottom end of paper slipping on the abutting surface 103 when sheets of paper P are loaded on the paper feeding apparatus 100.

Please replace paragraph [0123] with the following rewritten paragraph:

[0123] The stopper 140 is capable of ~~vertical turn~~ vertically turning or swing within a location groove 145 formed along the feed direction on the abutting surface 103. When the stopper 140 lowers ~~and is accommodated~~ within the location groove 145, the stopper 140 does not abut the bottom end of paper P. On the other hand, when the ~~stopper 140~~ stopper 140

risers and projects over the location groove 145, ~~it~~the stopper 140 lifts up the bottom end of paper P ~~to abut to and abuts~~ the bottom end of paper P at approximately ~~the~~ a right angle.

Please replace paragraph [0124] with the following rewritten paragraph:

[0124] The driving mechanism ~~to turn that turns~~ the stopper 140 in the vertical direction is ~~going to be described in~~ described below referring to Fig. 5 ~~and Figs. 6A and Figs. 5, 6A, and 6B. Fig. 6 A and B~~ Figs. 6A and 6B are explanatory ~~view to show~~ views that show the stopper 140 in ~~the risen~~ raised/lowered state.

Please replace paragraph [0129] with the following rewritten paragraph:

[0129] The ~~followings explain the~~ mechanism to transmit a driving force to the operation shaft 142 through the rotation lever 141 is explained below referring to Fig. 7. The manual feed tray 102 in ~~full lines~~ solid lines indicates the open position (capable of a manual paper feed). The manual feed tray 102 in dashed ~~line~~ lines shows the state of the manual feed tray 102 when it is opening from the closed state, and the state of a projection portion 102b and the rotation lever 141 are in contact.

Please replace paragraph [0133] with the following rewritten paragraph:

[0133] The ~~description in below is about the~~ mechanism to transmit the driving force to the operation shaft 142 through the gear 120i is explained below referring to Fig. 5 ~~and Figs. 6A and 6B. Figs. 5, 6A, and 6B.~~ In this case, the vertical movement of the stopper 140 is not caused by opening/closing the manual feed tray 102, ~~but~~ 102 but, is caused by driving the feed motor 220.

Please replace paragraph [0135] with the following rewritten paragraph:

[0135] When the gear 120a makes regular rotations (rotates in the clockwise direction in Fig. 5), the gear ~~120b-120b,~~ which gears with the gear ~~120a-120a,~~ makes reverse rotations (rotates in the counterclockwise direction in Fig. 5), and the gear ~~120e-120e,~~ which gears with the gear 120b but not with the gear ~~120e-120c,~~ makes regular rotations.

Please replace paragraph [0136] with the following rewritten paragraph:

[0136] The gear ~~120f~~120f, which gears with the gear ~~120e~~120e, makes reverse rotations, and the gear ~~120g~~120g, which gears with the gear ~~120f~~120f, makes regular rotations. The gear ~~120h~~120h, which gears with the gear ~~120g~~120g, makes reverse rotations, and the gear ~~120i~~120i, which gears with the gear ~~120h~~120h, makes regular rotations.

Please replace paragraph [0137] with the following rewritten paragraph:

[0137] Consequently, the cam 143 rotates in the clockwise direction separating the periphery surface from the backside of the operation arm ~~146~~146, as shown in Fig. 6B, and lowers the stopper ~~140~~lowers140.

Please replace paragraph [0140] with the following rewritten paragraph:

[0140] The constitution of the gear 120h is illustrated in Fig. 8. The gear 120h comprises a gear ~~120h1~~120h1, which gears with the gear 120g, a friction member 120h2 constituted, for example, with felt, a gear ~~120h3~~120h3, which gears with the gear 120i, a support shaft 120h4 projecting through the centers of the gears 120h1 and 120h3, and a compression spring 120h5 pressing the upper surface of the gear 120h3. The gears 120h1 and 120h3 are ~~constituted to be able~~configured to rotate ~~respectively and~~ freely around the support shaft 120h4.

Please replace paragraph [0142] with the following rewritten paragraph:

[0142] When there ~~is~~is a load on ~~the~~ gear 120i, a slip occurs between the friction member 120h2 and the gear 120h3. The driving force ~~on the~~on gear 120h1 is not transmitted ~~to the~~to gear 120h3, and ~~the~~ gear 120h1 makes idle rotation.

Please replace paragraph [0143] with the following rewritten paragraph:

[0143] Block walls 120j and 120k (refer to Fig. 5) are ~~constituted~~configured to stop the stopper 140 from turning ~~more~~further when the stopper 140 rises to the uppermost

position and similarly, when the stopper 140 lowers to the lowermost position. When ~~more~~ an increase in rotation is given to ~~the~~ gear 120i ~~when the~~ and gear 120i is abutting ~~to one of~~ the block walls 120j and 120k, ~~the~~ gear 120h slips and does not transmit the driving force to ~~the~~ gear 120h1. The driving force transmitted from ~~the~~ gear 120g to ~~the~~ gear 120h1 is not transmitted due to the idle rotation of ~~the~~ gear 120h1.

Please replace paragraph [0147] with the following rewritten paragraph:

[0147] At this time, the first transfer roller 201 rotates in the opposite direction to the rotational direction for advancing paper P in the direction F so that the first transfer roller 201 cannot transfer paper P to the printing mechanism 300 even though paper P is transferred to the first transfer roller 201 while a paper feed is executed. This movement is to correct diagonal transfer of paper P. It is not going to be described here since it is a well-known art.

Please replace paragraph [0158] with the following rewritten paragraph:

[0158] ~~The followings explain, by using the drawings of Fig. 9 to Fig. 12, Referring to~~ Figs. 9-12, the printing process executed by the CPU 401 according to the program in the ROM 402.402 is explained below.

Please replace paragraph [0189] with the following rewritten paragraph:

[0189] When there ~~is~~ is a load on ~~the~~ gear 120i, a slip occurs between ~~the~~ friction member 120h2 and ~~the~~ gear 120h3. The driving force of ~~the~~ gear 120h1 is not transmitted to ~~the~~ gear 120h3, and ~~the~~ gear 120h1 makes idle rotation. ~~The gear-Gear~~ Gear 120h does not ~~give~~ provide rotational force to ~~the~~ gear 120i in the descent direction of the stopper 140 after the stopper 140 ~~lowers~~ is lowered.

Please replace the Abstract with the attached amended Abstract.